

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4	("20040224674" "20030065805").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/05 16:07
L2	12	(download\$3 with (application software program) with (uddi (universal adj description adj discovery adj integration)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/05 16:24
L3	0	l2 and 717/178.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/05 16:25
L4	339	(download\$3 with (application software program)) and ((uddi (universal adj description adj discovery adj integration)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/05 16:24
L5	0	l4 and 717/178.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/05 16:25
L6	1	l4 and 717/174.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/05 16:25
L7	2	l4 and 717/176.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/05 16:25
L8	0	l4 and 717/177.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/05 16:26

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L9	2	l4 and 709/200.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/05 16:26
L10	1	l4 and 709/202.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/11/05 16:26



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**61** [Engagement II: Application development for informal learning environments: where IT edu](#)



[baseball and history intersect](#)

Robert Friedman, Marc Sequeira

October 2004 **Proceedings of the 5th conference on Information technology education CI**

**Publisher:** ACM Press

Full text available: [pdf\(197.03 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index 1](#)

A collaborative software development project that brings together elementary school children, c  
urators is described. Museum visitors discover the history of the Negro Leagues and gain an ur  
the struggle for social justice. The paper describes the development processes of the applicator  
discusses the benefits and challenges of inter-institutional collaboration and learning activities t

**Keywords:** application development, informal learning environments, participatory design

**62** [Middleware design issues for ubiquitous computing](#)



Tatsuo Nakajima, Kaori Fujinami, Eiji Tokunaga, Hiroo Ishikawa

October 2004 **Proceedings of the 3rd international conference on Mobile and ubiquitous n**

**Publisher:** ACM Press

Full text available: [pdf\(183.67 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

Our daily lives will be dramatically changed by embedded small computers in our environments  
*ubiquitous computing environments*. To realize the environments, it is important to reduce the  
computing applications by encapsulating complex issues in middleware infrastructures that are  
this paper, we describe three middleware infrastructures for supporting ubiquitous computing, t

**Keywords:** middleware design, ubiquitous computing

**63** [Document interaction: ScreenCrayons: annotating anything](#)



Dan R. Olsen, Trent Tauber, Jerry Alan Fails

October 2004 **Proceedings of the 17th annual ACM symposium on User interface software**

**Publisher:** ACM Press

Full text available: [pdf\(586.83 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index 1](#)

ScreenCrayons is a system for collecting annotations on any type of document or visual informa  
basis for the system is a screen capture upon which the user can highlight the relevant portions

any number of topics for organizing notes. Each topic is associated with a highlighting "crayon." annotations in digital ink or text. Algorithms are described that summarize captured images bas

**Keywords:** annotation, digital ink, image summarization, screen capture

64 Information systems interoperability: What lies beneath?



Jinsoo Park, Sudha Ram

October 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 4

**Publisher:** ACM Press

Full text available: pdf(824.78 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Interoperability is the most critical issue facing businesses that need to access information from Our objective in this research is to develop a comprehensive framework and methodology to fac among distributed and heterogeneous information systems. A comprehensive framework for ma is proposed. Our proposed framework provides a unified view of the underlying representationa

**Keywords:** Information integration, mediators, ontology, semantic conflict resolution, semanti

65 The elements of nature: interactive and realistic techniques



Oliver Deussen, David S. Ebert, Ron Fedkiw, F. Kenton Musgrave, Przemyslaw Prusinkiewicz, Doug August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

**Publisher:** ACM Press

Full text available: pdf(17.65 MB)

Additional Information: [full citation](#), [abstract](#)

This updated course on simulating natural phenomena will cover the latest research and produc most of the elements of nature. The presenters will provide movie production, interactive simul. on the difficult task of photorealistic modeling, rendering, and animation of natural phenomena. of the latest interactive graphics hardware-based simulation techniques and the latest physics-t

66 Negotiating in service-oriented environments



Ahmed Elfatratry, Paul Layzell

August 2004 **Communications of the ACM**, Volume 47 Issue 8

**Publisher:** ACM Press

Full text available: pdf(115.76 KB) html (33.52 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index t](#)

Buy or rent? This question applies not only to houses and cars, but now to software.

67 Digital preservation: A semi-automated digital preservation system based on semantic web



Jane Hunter, Sharmin Choudhury

June 2004 **Proceedings of the 4th ACM/IEEE-CS joint conference on Digital libraries JC**

**Publisher:** ACM Press

Full text available: pdf(357.74 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper describes a Web-services-based system which we have developed to enable organiz preserve their digital collections by dynamically discovering and invoking the most appropriate required. By periodically comparing preservation metadata for digital objects in a collection with potential object obsolescence can be detected and a notification message sent to the relevant a so ...

**Keywords:** digital preservation, semantic web services

68 Bioinformatics—an introduction for computer scientists



Jacques Cohen

June 2004

**ACM Computing Surveys (CSUR)**, Volume 36 Issue 2

**Publisher:** ACM Press

Full text available: pdf(261.56 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The article aims to introduce computer scientists to the new field of bioinformatics. This area has biologists to utilize and help interpret the vast amounts of data that are constantly being gathered by more recent counterparts, proteomics and functional genomics. The ultimate goal of bioinformatics is to develop tools that will complement in vitro and in vivo biological experiments. The article provides a bird's eye view of the field.

**Keywords:** DNA, Molecular cell biology, RNA and protein structure, alignments, cell simulation programming, hidden-Markov-models, microarray, parsing biological sequences, phylogenetic trees

69 Improving visualization: Fishnet, a fisheye web browser with search term popouts: a comparison of linear and fisheye views



Patrick Baudisch, Bongshin Lee, Libby Hanna

May 2004

**Proceedings of the working conference on Advanced visual interfaces AVI '04**

**Publisher:** ACM Press

Full text available: pdf(1.18 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Fishnet is a web browser that always displays web pages in their entirety, independent of their size, using a fisheye view, i.e. by showing a focus region at readable scale while spatially compressing the rest of the page. Fishnet offers search term highlighting, and assures that those terms are readable. It allows users to visually scan search results within the entire page without scrolling. The scope of this paper is to describe the design and implementation of Fishnet.

**Keywords:** fisheye view, popouts, search terms, web browser

70 XML: XVM: a bridge between xml data and its behavior



Quanzhong Li, Michelle Y. Kim, Edward So, Steve Wood

May 2004

**Proceedings of the 13th international conference on World Wide Web WWW '04**

**Publisher:** ACM Press

Full text available: pdf(377.35 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

XML has become one of the core technologies for contemporary business applications, especially for web applications. To facilitate processing of diverse XML data, we propose an extensible, integrated XML processing Machine (XVM), which connects XML data with their behaviors. At the same time, the XVM is also used to deploy XML-based applications. Using component-based techniques, the XVM supports arbitrary XML data and behaviors. high ...

**Keywords:** XML, XML applications, XML processing, XVM, components, web applications

71 Surfing the net for software engineering notes: Surfing the net for software engineering notes



Mark Doernhoefer

May 2004

**ACM SIGSOFT Software Engineering Notes**, Volume 29 Issue 3

**Publisher:** ACM Press

Full text available: pdf(1.47 MB)

Additional Information: [full citation](#)

72 Special session on reconfigurable computing: The digital divide of computing



Reiner Hartenstein

April 2004

**Proceedings of the 1st conference on Computing frontiers CF '04**

**Publisher:** ACM Press

Full text available:  pdf(182.18 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This presentation urges for creating more awareness of the impact of configware engineering or development and examines the requirements of overdue CSE curricular upgrades. Because of the computing, configware engineering has proceeded from niche to mainstream. Morphware has become an indispensable ingredient in SoC (System on a Chip) design and beyond. It turns embedded system software co-design into configware / so ...

**Keywords:** SoC, morphware, performance, reconfigurable computing

73 Software engineering #1: Towards a semantic-based approach for software reusable component retrieval



Haining Yao, Letha Etzkorn

April 2004

**Proceedings of the 42nd annual Southeast regional conference ACM-SE 42**

**Publisher:** ACM Press

Full text available:  pdf(218.97 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In this paper, we propose a semantic-based approach to improve software component reuse. The software reusable library to the World Wide Web; overcomes the keyword-based barrier by allowing language; treats a software component as a service described by semantic service representation by semantically matching between a user query semantic representation and software component domain ...

**Keywords:** domain knowledge base, ontology, reusable library, reuse repository, semantic matching

74 Streams, structures, spaces, scenarios, societies (5s): A formal model for digital libraries



Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp

April 2004

**ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2

**Publisher:** ACM Press

Full text available:  pdf(316.85 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Digital libraries (DLs) are complex information systems and therefore demand formal foundation and interoperability suffers. In this article, we propose the fundamental abstractions of Streams and Societies (5S), which allow us to define digital libraries rigorously and usefully. Streams are used to describe both static and dynamic (e.g., video) content. Structures can be viewed as lab

**Keywords:** applications, definitions, foundations, taxonomy

75 Multi-platform interfaces: Flexible re-engineering of web sites




Laurent Bouillon, Jean Vanderdonckt, Kwok Chieu Chow

January 2004

**Proceedings of the 9th international conference on Intelligent user interfaces**

**Publisher:** ACM Press

Full text available:  pdf(731.09 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Re-engineering transforms a final user interface into a logical representation that is manipulable engineering to port a UI from one computing platform to another with maximum flexibility and is used to adapt a UI to another context. This adaptation is governed by two main tasks: the adapting computing platform and the redesign of the UI to better suit the new constraints of the target platform

**Keywords:** forward engineering, model-based approach, portability, reengineering, reverse engineering

76

Software performance modelling using PEPA nets



Stephen Gilmore, Jane Hillston, Leila Kloul, Marina Ribaudó

January 2004 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 4th international conference on Software Performance WOSP '04**, Volume 29 Issue 1

**Publisher:** ACM Press

Full text available: pdf(1.16 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Modelling and analysing distributed and mobile software systems is a challenging task. PEPA nets are a recently introduced modelling formalism which clearly capture important features such as message passing. In this paper we describe PEPA nets and the newly-developed platform support for modelling using them. Crucial to this support is the compilation from PEPA nets into Hillston's P

**Keywords:** PEPA nets, mobile objects, performance analysis

**77** Grid-Based Galaxy Morphology Analysis for the National Virtual Observatory

Ewa Deelman, Raymond Plante, Carl Kesselman, Gurmeet Singh, Mei-Hui Su, Gretchen Greene, Roberto Antonio Volpicelli, James Annis, Vijay Sekhri, Tamas Budavari, Maria Nieto-Santisteban, William O' McGlynn, Arnold Rots, Olga Pevunova

November 2003 **Proceedings of the 2003 ACM/IEEE conference on Supercomputing SC '03**

**Publisher:** IEEE Computer Society

Full text available: pdf(357.64 KB)

Additional Information: [full citation](#), [abstract](#), [citations](#)

As part of the development of the National Virtual Observatory (NVO), a Data Grid for astronomical science application to explore the dynamical history of galaxy clusters by analyzing the galaxies the prototype is to investigate how Grid-based technologies can be used to provide specialized support for the NVO environment. In this paper we focus on the key enabling technology components, particularly

**78** Access control: An access control framework for business processes for web services



Hristo Koshutanski, Fabio Massacci

October 2003 **Proceedings of the 2003 ACM workshop on XML security XMLSEC '03**

**Publisher:** ACM Press

Full text available: pdf(269.56 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Business Processes for Web Services are the new paradigm for the lightweight integration of business enterprises. Whereas the security and access control policies for basic web services and distributed systems are almost standardized, there is not yet a comprehensive proposal for an access control architecture. A major issue is that a business process describes complex services that cross organizational boundaries.

**Keywords:** controlled disclosure, distributed systems security, e-business, interactive access control services

**79** Can GRID services provide answers to the challenges of national health information sharing

I. Bilykh, Y. Bychkov, D. Dahlem, J. H. Jahnke, G. McCallum, C. Obry, A. Onabajo, C. Kuziemsky

October 2003 **Proceedings of the 2003 conference of the Centre for Advanced Studies on Health Information Systems '03**

**Publisher:** IBM Press

Full text available: pdf(964.34 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)


It has been widely recognized that one of the keys to cost reduction and service improvement is the integration of medical information systems. Integration of information can not only improve care but also help build research bases to enhance future care delivery. The question is how to achieve such a client software solution or common clinical terminology does not appear likely to happen. That is

**80** Electronic document technology: Digital document life cycle development

Henryk Krawczyk, Bogdan Wiszniewski

September 2003 **Proceedings of the 1st international symposium on Information and comm**  
**'03**

**Publisher:** Trinity College Dublin

Full text available:  [pdf\(198.83 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

The paper reports on the ongoing project IST-2001-33441-MEMORIAL funded by EU under the I  
at developing an interactive electronic document model suitable for creating a Virtual Memorial  
on personal records of prisoners of former Nazi concentration camps, which are mostly machine  
strong focus on historical documents in the project, the OCR and Web technology being develop  
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**81** [Designing and implementing a family of intrusion detection systems](#)



Giovanni Vigna, Fredrik Valeur, Richard A. Kemmerer

September 2003 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 9th European conference held jointly with 11th ACM SIGSOFT international symposium on software engineering ESEC/FSE-11**, Volume 28 Issue 5

**Publisher:** ACM Press

Full text available: [pdf\(204.47 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Intrusion detection systems are distributed applications that analyze the events in a networked behavior. The analysis is performed using a number of attack models (or signatures) that are monitored in stream. Intrusion detection systems may operate in heterogeneous environments, analyzing different types of events. Currently, intrusion detection systems and the corresponding attack modeling languages are developed.

**Keywords:** intrusion detection, object-oriented frameworks, program families, security

**82** [Designing for scale and differentiation](#)



Karen R. Sollins

August 2003 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM 2003 conference on Computer communication security FDNA '03**, Volume 33 Issue 4

**Publisher:** ACM Press

Full text available: [pdf\(345.48 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index](#)

Naïve pictures of the Internet frequently portray a small collection of hosts or LAN's connected in a simple way. The truth is more complex. The IP-level structure of the Internet is composed from a large number of different types of connections which differs in some or all of transmission technologies, routing protocols, administrative models, capabilities, pricing mechanisms, and similar attributes. On top of this, a whole new structure of connections is emerging.

**Keywords:** Network Architecture, extensibility, heterogeneity, scalability

**83** [Hypermedia semantics: Which semantic web?](#)



Catherine C. Marshall, Frank M. Shipman

August 2003 **Proceedings of the fourteenth ACM conference on Hypertext and hypermedia**

**Publisher:** ACM Press

Full text available: [pdf\(329.99 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Through scenarios in the popular press and technical papers in the research literature, the problem of how to represent and manage the semantics of hypermedia is discussed.

raised a number of different expectations. These expectations can be traced to three different p  
The Semantic Web is portrayed as: (1) a universal library, to be readily accessed and used by h  
use contexts; (2) the backdrop for the work of computational agents completing sophisticated a

**Keywords:** digital libraries, hypertext, information systems, knowledge acquisition, knowledge

84 WME: towards a web for mathematics education



Paul S. Wang, Norbert Kajler, Yi Zhou, Xiao Zou

August 2003

**Proceedings of the 2003 international symposium on Symbolic and algebrai**

**Publisher:** ACM Press

Full text available: pdf(133.39 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index 1](#)

Reported is an approach for *Web-based Mathematics Education* (WME). The WME framework is  
create a *Web for mathematics education*. Components of the WME framework include the *Math*  
*Language* (MeML) for page markup, regular Web servers to deliver pages, WME Page Processor:  
to receive MeML pages, and a variety of WME services (mathematical and educational) to suppl

**Keywords:** MeML, WME, education, markup, mathematics, mathematics education markup pro  
service language, web, web-based mathematics education

85 The AROUND architecture for dynamic location-based services

Rui José, Adriano Moreira, Helena Rodrigues, Nigel Davies

August 2003

**Mobile Networks and Applications**, Volume 8 Issue 4

**Publisher:** Kluwer Academic Publishers

Full text available: pdf(194.30 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper presents a generic concept of location-based service as an abstraction for supporting  
computational resources and location. The objective is to extend the advantages of service-bas  
development of location-based systems, thus providing a more open and extensible alternative  
typically used in this type of system. The novel AROUND architecture is proposed as an approach  
services in t ...

**Keywords:** info-mobility, location-based services, mobile computing, service discovery

86 Mobility & wireless access: Sensor-enhanced mobile web clients: an XForms approach



John Barton, Tim Kindberg, Hui Dai, Nissanka B. Priyantha, Fahd Al-bin-ali

May 2003

**Proceedings of the 12th international conference on World Wide Web WWW**

**Publisher:** ACM Press

Full text available: pdf(485.90 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper describes methods for service selection and service access for mobile, sensor-enhanc  
cameras or wireless PDAs with sensor devices attached. The clients announce their data-creatin  
sent to servers; servers respond with forms that match these capabilities. Clients fill in these fo  
text or file data. The resultant system enables clients to access dynamically discovered services

**Keywords:** MIME types, browsers, forms, mobile computing, sensors, ubiquitous computing

87 Writing the web: Mining topic-specific concepts and definitions on the web



Bing Liu, Chee Wee Chin, Hwee Tou Ng

May 2003

**Proceedings of the 12th international conference on World Wide Web WWW**

**Publisher:** ACM Press

Full text available: pdf(245.66 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Traditionally, when one wants to learn about a particular topic, one reads a book or a survey paper. On the Web, learning in-depth knowledge about a topic from the Web is becoming increasingly important due to the Web's convenience and its richness of information. In many cases, learning from the Web is becoming more important because in our fast changing world, emerging topics appear constantly and rapidly. There is often someone ...

**Keywords:** definition mining, domain concept mining, information integration, knowledge comp

88 E-commerce: SweetDeal: representing agent contracts with exceptions using XML rules, c  
descriptions



Benjamin N. Grosz, Terrence C. Poon

May 2003

**Proceedings of the 12th international conference on World Wide Web WWW**

**Publisher:** ACM Press

Full text available: pdf(481.94 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

SweetDeal is a rule-based approach to representation of business contracts that enables software agents to negotiate, and execute contracts with substantial automation and modularity. It builds upon the existing programs knowledge representation in RuleML, the emerging standard for Semantic Web XML rules. SweetDeal approach by also incorporating process knowledge descriptions whose ontologies are (emerging standard) ...

**Keywords:** DAML+OIL, OWL, RDF, XML, business process automation, declarative, description logic, electronic contracts, intelligent software agents, knowledge representation, knowledge-based, knowledge descriptions, process knowledge, rules, semantic web, semantic web services, web services

89 Business-to-business interactions: issues and enabling technologies

B. Medjahed, B. Benatallah, A. Bouguettaya, A. H. H. Ngu, A. K. Elmagarmid

May 2003

**The VLDB Journal — The International Journal on Very Large Data Bases, Vol. 12**

**Publisher:** Springer-Verlag New York, Inc.

Full text available: pdf(558.34 KB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Business-to-Business (B2B) technologies pre-date the Web. They have existed for at least as long as applications were among the first to take advantage of advances in computer networking. The B2B business standard is an illustration of such an early adoption of the advances in computer networking. The affordability of the Web has made it possible for the masses of businesses to automate their B2B issues ...

**Keywords:** B2B Interactions, Components, E-commerce, EDI, Web services, Workflows, XML

90 On-line instructional testing in a mobile environment

Cerise Wuthrich, Gail Kalbfleisch, Terry Griffin, Nelson Passos

April 2003

**Journal of Computing Sciences in Colleges**, Volume 18 Issue 4

**Publisher:** Consortium for Computing Sciences in Colleges

Full text available: pdf(73.85 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Wireless access to the Internet has opened the door to a new range of computer applications, designed for the mobile user, equipped with a personal digital assistant or cell phone device. In the educational communication environment allows students to access registrar records, enter enrollment information. This paper describes the use of mobile devices in helping students prepare for knowledge tests and ...


91 Going wireless, enabling an adaptive and extensible environment

Theo G. Kanter

February 2003

**Mobile Networks and Applications**, Volume 8 Issue 1

**Publisher:** Kluwer Academic Publishers

Full text available:  pdf(483.21 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index t](#)


This paper discusses limitations in existing and projected solutions for delivering applications to increasingly diverse heterogeneous wireless infrastructure in combination with the on-going der communication and with an increasing number of more narrowly defined roles of parties partici applications to mobile users. Furthermore, for future service growth, users need to be the cente applications t ...

**Keywords:** agents, context, scalability, service, wireless

**92** Directed diffusion for wireless sensor networking

Chalermek Intanagonwiwat, Ramesh Govindan, Deborah Estrin, John Heidemann, Fabio Silva  
February 2003 **IEEE/ACM Transactions on Networking (TON)**, Volume 11 Issue 1

**Publisher:** IEEE Press

Full text available:  pdf(589.26 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#)


Advances in processor, memory, and radio technology will enable small and cheap nodes capab computation. Networks of such nodes can coordinate to perform distributed sensing of environn we explore the *directed-diffusion* paradigm for such coordination. Directed diffusion is data-cent named data. All nodes in a directed-diffusion-based network are application aware. This enable:

**Keywords:** data aggregation, data-centric routing, distributed sensing, in-network processing,

**93** Generating indicative-informative summaries with sumUM

Horacio Saggion, Guy Lapalme  
December 2002 **Computational Linguistics**, Volume 28 Issue 4


**Publisher:** MIT Press

Full text available:  pdf(319.27 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited b](#)

We present and evaluate SumUM, a text summarization system that takes a raw technical text indicative informative summary. The indicative part of the summary identifies the topics of the part elaborates on some of these topics according to the reader's interest. SumUM motivates th defines concepts. It is a first step for exploring the issue of dynamic summarization. This is acco S ...

**94** Groupware infrastructure: Using speakeasy for ad hoc peer-to-peer collaboration

 W. Keith Edwards, Mark W. Newman, Jana Z. Sedivy, Trevor F. Smith, Dirk Balfanz, D. K. Smetter:  
November 2002 **Proceedings of the 2002 ACM conference on Computer supported cooperat**

**Publisher:** ACM Press

Full text available:  pdf(346.03 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#)

Peer-to-peer systems appear promising in terms of their ability to support ad hoc, spontaneous peer-to-peer systems suffer from several deficiencies that diminish their ability to support this c terms of discovery protocols, network usage, and data transports. We have developed the Spea addresses these issues, and supports these types of applications. We show how Speakeasy add p ...

**Keywords:** ad-hoc collaboration, casca, peer-to-peer, speakeasy

**95** The Web Service Discovery Architecture

Wolfgang Hoschek

November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing Supercom**

**Publisher:** IEEE Computer Society Press

Full text available:  [pdf\(282.28 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In this paper, we propose the Web Service Discovery Architecture (WSDA). At runtime, Grid applications discover and adapt to remote services. WSDA promotes an interoperable web service discovery services, interfaces, operations and protocol bindings, based on industry standards. It is unified disparate concepts, interfaces and protocols under a single semi-transparent umbrella. It is mo

96 Session: Designing a web services project for maximum value: the 90 day challenge



Katherine Radeka

November 2002 **OOPSLA 2002 Practitioners Reports OOPSLA '02**

**Publisher:** ACM Press

Full text available:  [pdf\(569.47 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

The 90 Day Challenge team set out to deliver an end-to-end Web services solution to enterprise immediate plans to extend the solution to other user groups. In order to meet their commitment same component Web services in multiple contexts. By modeling the workflows and carefully m level, the team developed a suite of Web services that other teams could easily incorporated int

**Keywords:** services oriented computing, web services




97 Papers: novel 2D interaction: Side views: persistent, on-demand previews for open-ended



Michael Terry, Elizabeth D. Mynatt

October 2002 **Proceedings of the 15th annual ACM symposium on User interface software**

**Publisher:** ACM Press

Full text available:  [pdf\(479.12 KB\)](#)  [wmv\(300.00 bytes\)](#)  [mov\(300.00 bytes\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We introduce Side Views, a user interface mechanism that provides on-demand, persistent, and Side Views are designed to explicitly support the practices and needs of expert users engaged in we summarize results from field studies of expert users that motivated this work, then discuss 1 We show how Side Views' design affords their use as tools for clarifying, comparing, and contra

98 Challenges: Challenge: recombinant computing and the speakeasy approach



W. Keith Edwards, Mark W. Newman, Jana Sedivy, Trevor Smith, Shahram Izadi

September 2002 **Proceedings of the 8th annual international conference on Mobile computing '02**

**Publisher:** ACM Press

Full text available:  [pdf\(297.46 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited b](#)

Interoperability among a group of devices, applications, and services is typically predicated on the of prior knowledge of each another. In general, they must be written to understand the type of including the details of communication as well as semantic knowledge such as when and how to presents a case for "recombinant computing" -- a set of common interaction patterns that lever


**Keywords:** mobile code, recombinant computing, serendipitous interoperability, speakeasy

99 Towards a road map on human language technology: natural language processing

Andreas Eisele, Dorothea Ziegler-Eisele

August 2002 **COLING-02 on A roadmap for computational linguistics - Volume 13**

**Publisher:** Association for Computational Linguistics

Full text available:  [pdf\(270.05 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)


This document summarizes contributions and discussions from two workshops that took place in 2002. It presents some visions of NLP-related applications that may become reality within ten years from now, and the technological requirements that must be met in order to make these visions realistic and sketch a plan to measure our progress towards these goals.

**100 SELF-SERV: a platform for rapid composition of web services in a peer-to-peer environment**

Quan Z. Sheng, Boualem Benatallah, Marlon Dumas, Eileen Oi-Yan Mak

August 2002 **Proceedings of the 28th international conference on Very Large Data Bases**

**Publisher:** VLDB Endowment

Full text available:  pdf(393.09 KB)

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